

# AMERICAN SOCIETY FOR TESTING MATERIALS



## BULLETIN

ENGINEERS' CLUB BUILDING.

1315 SPRUCE ST.

PHILADELPHIA, PA.

NUMBER 16

FEBRUARY 25, 1925

### 1925 Annual Meeting at Chalfonte-Haddon Hall, Atlantic City

As previously announced, the Twenty-eighth Annual Meeting of the Society will be held at Chalfonte-Haddon Hall, Atlantic City, N. J., during the week of June 22. As in previous years Monday will be devoted to committee meetings, with the first session of the Annual Meeting probably on the afternoon of Tuesday, June 23, and the closing session on Friday evening, June 26. It will be necessary as in the past few years, to hold a number of simultaneous sessions. A provisional program will be mailed to the members late in April with the next issue of the BULLETIN.

#### Hotel Rates

Chalfonte-Haddon Hall is operated entirely on the American plan. Special rates for members and their guests are announced below:

Rooms with Private Bath		Per Day
Room occupied by one person	.....	\$10.00
Room occupied by two persons	.....	13.00 to \$18.00
Rooms with Running Water		
Room occupied by one person	.....	\$6.00 to \$8.00
Room occupied by two persons	.....	12.00 to 14.00

#### Reservations

Members who desire may reserve their accommodations now by addressing the hotel management. Most members, however, will probably wish to defer making their reservations until the program of the meeting has been distributed in April at which time further details regarding reservations will be announced.

It will be recalled that the Chalfonte and Haddon Hall each has its own dining room service, so that members who wish to take their meals together regularly should be sure to secure reservations in the same hotel. Through the courtesy of the hotel management, members may at times and by arrangement in advance take their meals in either dining room. Obviously, this can be done only to a limited extent.

#### Reduced Railroad Rates

Last year, the certificate plan for obtaining reduced railroad rates was tried. A minimum of 250 certificates was required before the reduced rate (1½ single fare for round trip) was effective. This number was well exceeded so the certificate plan will again be followed this year. Details will be given in the next issue of the BULLETIN.

#### Program

Committee E-6 on Papers and Publications is now engaged in the development of the program for the meeting. While no detailed announcement is possible at this time every assurance can be given that this meeting will be fully up to the standards of the past few years in value and timely interest of the reports and papers presented. Most of our committees have been quite active and will have much of value to report. The technical papers include in the field of metals, papers on fatigue tests and tests of metals at high temperatures. Offers of papers on several of the non-ferrous metals, together with some papers on corrosion testing, have been received. More offers of papers dealing with road materials have been received than for some years past, several of them dealing with the design and stability of bituminous mixtures. The field of testing is well represented, and these papers, together with a number of papers, on paints, oils, gypsum, concrete and brick, should result in a most interesting and well-rounded program.

#### Preprints of Reports and Papers

The plan for distribution of preprints in effect during the past two years will be continued as follows: The provisional program mailed to each member in April will be accompanied by a return blank upon which the member will be asked to indicate those reports and papers he desires to receive. Preprints will be distributed only to those members who request them. All members attending the Annual Meeting will receive as they register a complete set of preprints.

#### Entertainment

The entertainment features have been placed in the hands of an Entertainment Committee that is again under the able chairmanship of Mr. W. M. Corse. The golf and tennis tournaments will be held as usual, and other entertainment will be provided for the members and their guests who are not interested in the tournaments. The Entertainment Committee is again following the plan of inviting the members of the Society's committees to subscribe towards a fund to defray the cost of prizes and certain other entertainment expenses. Further announcement of entertainment features will follow.

# A.S.T.M. BULLETIN

Issued Quarterly by the  
AMERICAN SOCIETY FOR TESTING MATERIALS  
Engineers' Club Building, 1315 Spruce St., Philadelphia, Pa.

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*Assistant Secretary*  
R. E. HESS

Number 16

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## Promoting Society's Usefulness

The Special Committee on Promotion of Usefulness of the Society's Work has been appointed by President Farmer as follows:

J. H. GIBBONEY (Chairman), Chemist, Norfolk and Western Railway Co., Roanoke, Va.;  
W. L. CHANDLER, Secretary, National Association of Purchasing Agents, New York City;  
W. M. KINNEY, General Manager, Portland Cement Association, Chicago, Ill.;  
T. D. LYNCH, Manager, Materials and Process Engineering Department, Westinghouse Electric and Manufacturing Co., East Pittsburgh, Pa.;  
ANSON MARSTON, Dean of Division of Engineering, Iowa State College, Ames, Ia.;  
C. F. W. RYS, Metallurgical Engineer, Carnegie Steel Co., Pittsburgh, Pa.;  
T. H. WIGGIN, Consulting Engineer, New York City.

The President and Secretary-Treasurer are serving as ex-officio members of the committee.

This committee has begun a study of the problems referred to it by the Executive Committee, having held a fully attended meeting in New York City on January 19. Such matters as the following are being studied:

1. Greater publicity of the activities of the Society between its annual meetings, especially in connection with the group meetings of standing committees that have now been inaugurated;
2. A survey of the extent of use of the A.S.T.M. specifications and methods of testing;
3. The importance of having the activities of the Society and the significance in general of the entire field of materials and testing, brought to the attention of the students in technical and trade schools, in apprentice courses in industrial establishments, and the like;
4. The importance of having our members and others give credit to the Society's specifications when they are used in whole or in part in the development of other specifications;
5. The consideration of various means by which the small consumer of materials may more greatly benefit by the work of the Society than is apparently the case at present.

Recommendations respecting certain plans for publicity and a survey of the extent of use of our standards have been approved by the Executive Committee and will be developed shortly. The Executive Committee plans to include in its annual report to the Society next June a comprehensive discussion of this whole subject.

## Research Activities Reviewed

Committee E-9 on Correlation of Research has taken important preliminary steps in its work. It has made a review of the researches and investigations either actually undertaken or proposed by our standing committees. The list of these investigations is quite impressive. The committee is sending this list to the officers of all standing committees for comment and, if need be, amplification, so that it may be accurately informed regarding the investigations that are being undertaken officially by the Society and its committees.

## Tests of Metallic Coatings Well Financed

It is gratifying to announce that the solicitation of funds for the support of the program of exposure tests of metallic coated products, under the auspices of Committee A-5 on Corrosion of Iron and Steel, has been most successful. Although the goal of the committee raising the funds was fixed at \$6000, there has been subscribed up to the present time a total of \$9,445. This is substantial evidence of the value of these tests to industry and the confidence of industry that they will be properly conducted by the committee. The increased financial support will make possible the expansion of the original program in very desirable directions.

When the collection of funds is completed, a list of the contributors will be published.

## 1924 Proceedings Now Ready for Distribution

The PROCEEDINGS for 1924 comprise 2306 pages and are practically 50 per cent larger than ever before. The greatly increased size has delayed the appearance of these two volumes about two months. The printing and binding are now completed and copies will be mailed to all members in good standing beginning with March 2.

The delay, although unavoidable, is greatly regretted by the Committee on Papers and Publications, but it is hoped that the distinctive value of these two volumes will compensate for inconveniences caused in their delay.

The reprints of the Symposium on Corrosion-Resistant Alloys will be ready for mailing by March 6.

## Society Membership

The year 1924 was a very encouraging one from the point of view of growth in membership. Although not quite up to the record of 1923, there were elected 452 new members which, with losses from death, resignation and delinquency of 248, means a net growth for the year of 204, with a membership at the close of the year of 3597. Of the 452 new members, 165, or nearly 40 per cent, were secured through the efforts of our standing committees, a remarkable tribute to the interest of the members of those committees in building up the Society.

In response to the post card request in connection with the last issue of the BULLETIN, in which each member was asked to suggest two prospective new members with whom the Secretary-Treasurer would communicate, about 170 members replied, suggesting 306 names, and each of these has been addressed individually and invited to membership. We are hoping to secure in this way a goodly number of new members and we wish to thank all of our members who responded.

The standing committees are being asked to continue and intensify their efforts in bringing desirable new members into the Society, for the possibilities for expansion of our work are constantly increasing and require the added financial support possible with increased membership.

## New Members from November 10, 1924, to January 31, 1925

The following 111 new members have been elected since  
BULLETIN No. 15 was issued:

A-A Wire Co.	Hummell, A. S.
Aktiebolaget Alpha	Jackson and Moreland
Allen and Co., Ltd., Edgar	Jarvie, J.
Aluminum Ore Co.	Johnstone, Edward J.
American Ink Co.	Judd, Frank Rhymal
American NoKoi Co.	Junkers, Hugo
Anaconda American Brass Ltd.	Knapp, Arthur
Anchor Webbing Co.	Laverie, Inc., Robert H.
Barnett, Novell	Leake, Thomas C.
Barrett Co., The	Levison, Arthur A.
Bartlett, Terrell	Levy, A. Hoyt
Beaver Mills	Locomotive Firebox Co.
Bonney-Floyd Co., The	Macnaughton, M. F.
Broeman, F. C.	Martin, Evan Search
Brown, Brian S.	McGeorge, D. W.
Burmah Oil Co., Ltd., The	McKinney, Meredith E.
Calumet Chemical Co.	Montreal Tramways Co.
Campbell, Harry L.	Morrison, Roger L.
Carroll, Charles F.	Municipal Reference Library
Chase, Morris R.	(New York City)
Chatfield Manufacturing Co., The	Narrow Fabric Co., The
Chester Engineers, The J. N.	National Rosin Oil and Size Co.
Clayton Oil and Refining Co.	Naval Research Laboratory
Cleveland Wire Spring Co., The	National Association of Pur- chasing Agents
Cogswell, Starr E.	New Mexico State Highway Department
Cohen, Samuel	Newport Co., The
Cohoes Rolling Mill Co.	Okey, Frank M.
Cold Rolled Strip Steel Manu- facturers	Pan-American Petroleum Co.
Commercial Club of Cincinnati	Pargas Kalkbergs Aktiebolag
Resource Survey	Penick and Ford, Ltd., Inc.
Commonwealth Power Corpora- tion	Plymouth Cordage Co.
Crook, Louis H.	Pressler, Eugene E.
Dapogny, Marcel L.	Proefstation voor Bouwmateri- alen
Darling Valve and Manufactur- ing Co.	Reed, Everett L.
Duckworth, J. S.	Regan Safety Devices Co., Inc., The
Eaton, Edward N.	Robinson, Butler, Hemingway and Co.
Edna Brass Manufacturing Co., The	Rosch, Samuel J.
Eisen- und Stahlwerk Hoesch	Ross, Raymond
Ettinger, W. J.	Salamon, Maurice S.
Faus, H. W.	Schaeffer, E. R.
Finssongs Metallverks Aktie- bolag	Scott and Co., Henry L.
Fleischmann Co., The	Sharengrad, W. de
Fort, Edwin J.	Sidman, George N.
Foss, Feodore F.	Smith Belting Co., Manning J.
Frauenthal, A. Harold	Société Financière de Transports et d'Entreprises Industri- elles
Garneau, Jean-Berchmans	Sparre, Clas Eric
Gaskill, P. D.	Stevens Institute of Technology Library
Griffis, Ralph O.	Sumet Corporation
Grossmann, Marcus A.	Teaff, Clarence N.
Hazen, John F.	Trotter and Cate
Herrick, R. R.	Twining and Co., E. S.
Hickok, S. H.	Weir Co., Ltd., The James
Higginson Manufacturing Co.	What Cheer Clay Products Co.
Hill, Henry Robert	Willis, Horace H.
Holt, Harry Alfred	Wood Iron and Steel Co., Alan
Hope Webbing Co.	
Horne, W. E. S.	
Hughes, H. D.	

## Deceased Members

We announce with regret the death of ten members:

W. P. BLAIR, National Paving Brick Manufacturers' Association, Cleveland, Ohio.
J. W. DOUGHERTY, Marquette Iron Co., New York City.
W. H. HARDING, Whitehall Cement Manufacturing Co., Phila- delphia, Pa.
GABRIEL HENRY, Department of Roads, Province of Quebec, Canada.
OLAF HOFF, Consulting Engineer, New York City.
E. V. JOHNSON, Consulting Engineer, Chicago.
JONATHAN R. JONES, Alan Wood Iron and Steel Co., Philadelphia, Pa.
H. R. KIMMEL, The Marion Steam Shovel Co., Marion, Ohio.
J. B. LOBER, Vulcanite Portland Cement Co., Philadelphia, Pa.
W. T. MORGAN, Raymond Lead Works, Chicago, Ill.

## John B. Lober

1848-1924

In the death of John B. Lober on December 21, 1924, the Society lost a member who had long been active in its work and who had contributed in many ways to the upbuilding of its activities. He served on the Executive Committee from 1912 to 1914 and rendered valuable services in directing the finances during that period. Probably his most notable contribution was in the field to which he devoted the major portion of his life—that is, cement. He was until recently an active member of Committee C-1 on Cement and his experience and advice were always available and most helpful to that committee. The Executive Committee on behalf of the Society has extended its sympathies to Mr. Lober's family.

## List of Publications

**Proceedings, Volume 24 (1924).**—The Proceedings for 1924 in two parts: Part I, committee reports with discussions and new and revised tentative standards (1173 pp.); Part II, technical papers with discussions (1133 pp.). Prices to non-members: paper \$12.00, cloth \$13.00, half-leather \$16.00. To members for extra copies: \$7.00, \$8.00 and \$11.00, respectively.

**Book of A.S.T.M. Standards.**—Issued triennially. The 1924 edition (1230 pp.) containing 220 standards adopted by the Society. Prices to non-members: cloth, \$11.00; half-leather, \$12.50. To members for extra copies: \$8.00 and \$9.50, respectively.

**Book of A.S.T.M. Tentative Standards.**—The 1924 edition (763 pp.) contains 185 tentative standards issued by the Society. Prices to non-members: paper \$7.00; cloth, \$8.00. To members: \$4.50 and \$5.50, respectively.

**Separate Standards and Tentative Standards.**—Separate copies of all standards and tentative standards are available. The price is 25 cents for a single copy and in lots up to 50. Larger quantities are furnished at lower prices.

**Complete Sets of Proceedings** from 1902 to 1924, inclusive (with the exception of Vols. I and III). Special prices are made to members for extra copies and for complete sets. Binding in paper, cloth or half-leather.

**Index to Proceedings**, containing both an author and subject index of committee reports and technical papers, including discussions. Index to Vols. I-XII, 1898-1912 (158 pp.): Prices to non-members: \$1.50 in cloth, \$2.00 in half-leather; to members: \$1 in cloth, \$1.50 in half-leather. Index to Vols. XIII-XX, 1913-1920 (189 pp.): Prices to non-members: \$2.50 in cloth, \$3.50 in half-leather; to members: \$1.75 in cloth, \$2.75 in half-leather.

## Special Reprints from Proceedings

**Symposium on Effect of Temperature upon the Properties of Metals:** Four papers summarizing existing knowledge presented at Cleveland meeting of A.S.T.M. and A.S.M.E., complete with discussion and valuable bibliography (184 pp., paper cover). Price, \$1.50.

**Symposium on Corrosion-Resistant, Heat-Resistant and Electrical-Resistance Alloys:** Thirteen papers on all phases of the subject, presented at A.S.T.M. meeting at Atlantic City, June, 1924, containing three large inset tables of data on ninety of these alloys, complete with discussion (265 pp., paper cover). Price, \$2.00.

**1924 Report of Joint Committee on Standard Specifications for Concrete and Reinforced Concrete**, including complete specifications, with 14 A.S.T.M. specifications and methods of test appended (152 pp., paper cover). Price to non-members, \$1.50. To members, \$1.00.

**Special Pamphlet on Textile Materials**, containing reprints of a number of appendices and excerpts from the reports of the committee covering the years 1916 to 1923, and including nine standards and tentative standards (80 pp.) Price, \$1.00.

Inquiries and orders should be directed to:

AMERICAN SOCIETY FOR TESTING MATERIALS  
1315 Spruce Street, Philadelphia.

## A.S.T.M. Committee Activities

*Space in the BULLETIN is reserved for items of interest about committee activities. Officers of committees are invited to prepare information of suitable character for publication. A schedule of committee meetings for three months in advance will be published in each issue.*

### Metals Committees to Meet in Philadelphia

The third Metals Committee Week will be held in Philadelphia, March 18-20. Eleven committees have already indicated their intention of joining in such a Committee Week as follows:

A-1 on Steel;	A-9 on Ferro-Alloys;
A-2 on Wrought Iron;	B-1 on Copper Wire;
A-3 on Cast Iron;	B-2 on Non-Ferrous Metals and Alloys;
A-4 on Heat Treatment;	B-3 on Corrosion of Non-Ferrous Metals and Alloys;
A-5 on Corrosion of Iron and Steel;	E-4 on Metallography.
A-7 on Malleable Castings;	

The advantages of such a plan of holding meetings jointly are being appreciated, and it is expected that the coming meeting will be the biggest in attendance held so far. The group dinners and luncheons which were such important features in previous Committee Weeks are being provided for. Dr. Carl Benedicks, Director, Metallografiska Institutet, Stockholm, Sweden, who is now in this country, is expected to address the members on one of these occasions.

Arrangements will be made for an inspection of the Delaware River Bridge now in course of construction.

Further announcements regarding these meetings will be mailed to the members of the committees.

### First Non-Metals Committee Week

The idea of holding the meetings of such committees whose activities and personnel are somewhat related having proved so successful when tried by the Metals Committees, a number of the Non-Metals Committees of the Society will try out this plan in Philadelphia, March 25-27. The following committees have already indicated their intention of holding a meeting in conjunction with such a Committee Week:

C-1 on Cement;	D-5 on Coal and Coke;
C-2 on Reinforced Concrete;	D-8 on Waterproofing and Roofing Materials;
C-4 on Sewer Pipe;	D-9 on Electrical Insulating Materials;
C-6 on Drain Tile;	D-11 on Rubber Products;
C-8 on Refractories;	D-15 on Thermometers;
C-9 on Concrete;	D-16 on Slate.
D-4 on Road and Paving Materials;	

There is a possibility that other committees will also join in the meeting.

Informal dinners and luncheons similar to those arranged for the Committee Weeks of the Metals Committees held in the past will be provided for and an inspection trip to the Delaware River Bridge will be arranged.

Further announcements regarding these meetings will be mailed to the members of the committees.

### Personnel of Joint Research Committee Announced

Announcement is made of the appointment of the following Joint Research Committee on Effect of Temperature upon the Properties of Metals, under the auspices of the A.S.T.M. and the American Society of Mechanical Engineers:

G. K. ELLIOTT	G. W. SAATHOFF, Chairman	V. T. MALCOLM
J. B. JOHNSON		J. A. MATHEWS
H. J. FRENCH		L. W. SPRING

The committee has held two meetings at which plans for its work have been discussed. Space limitations in this issue of the BULLETIN make it necessary to defer announcement of the committee program until a later issue.

### Schedule of Committee Meetings

Date	Committee	Place
March 2	Sub-sub-committee, of Committee A-5, on Field Tests of Lead and Terne Plate.	Philadelphia
March 6	Nominating Committee.	Philadelphia
March 6	C-3 on Brick.	Philadelphia
March 6-7	D-13 on Textile Materials.	Providence
March 13	Advisory Committee, Committee E-8.	Philadelphia
March 13	E-8 on Nomenclature and Definitions.	Philadelphia
March 18-20	A-1 on Steel. A-2 on Wrought Iron. A-3 on Cast Iron. A-4 on Heat Treatment of Iron and Steel. A-5 on Corrosion of Iron and Steel. A-7 on Malleable Castings. A-9 on Ferro-Alloys. B-1 on Copper Wire. B-2 on Non-Ferrous Metals and Alloys. B-3 on Corrosion of Non-Ferrous Metals and Alloys. E-4 on Metallography.	Philadelphia
March 25-27	C-1 on Cement. C-2 on Reinforced Concrete. C-4 on Sewer Pipe. C-6 on Drain Tile. C-8 on Refractories. C-9 on Concrete and Concrete Aggregates. D-4 on Road and Paving Materials. D-5 on Coal and Coke. D-8 on Bituminous Waterproofing and Roofing Materials. D-9 on Electrical Insulating Materials. D-11 on Rubber Products. D-15 on Thermometers. D-16 on Slate.	Philadelphia
March	D-7 on Timber.	Chicago
April 3-4	D-2 on Petroleum Products and Lubricants.	Pittsburgh
April 10	D-1 on Preservative Coatings for Structural Materials.	Baltimore
April 13	On Promotion of Usefulness of A.S.T.M.	Philadelphia
April 14	Executive Committee.	Philadelphia
April 15	E-9 on Correlation of Research.	Philadelphia

### Society Aids Electrotechnical Commission

The Society has been invited by the United States Committee of the International Electrotechnical Commission, upon which it is represented, to prepare a report on the testing of transformer and other insulating oils for the use of the Committee at the meeting of the International Commission at The Hague next April. President Farmer appointed a special committee, under the chairmanship of C. E. Skinner, to review the entire subject, taking into account the work of Committee D-9 on Electrical Insulating Materials, and this special committee, at a meeting on January 15, prepared a comprehensive report which has been adopted by the United States Committee. Mr. E. A. Synder has been appointed an official delegate to The Hague Conference as a representative of the A.S.T.M.

The Secretary-Treasurer has been designated by the Executive Committee to represent the Society on the Executive Board of the American Marine Standards Committee.